PARTS LIST

( )	R1	1K OHM TRIM POT
( )	R2	33K RES (ORG ORG ORG)
( )	R3	220 OHM RES (RED RED BRN)
( )	R4	10K RES (BRN BLK ORG)
( )	R5	100K RES (BRN BLK YEL)
( )	R6,R7	10K TRIM POT
( )	R8,R9	12K RES (BRN RED ORG)
( )	C1	.01 uF CAP (MARKED 103 or .01)
( )	C2	.1 uF CAP (MARKED 104 or .1)
( )	C3	.001 uF CAP (MARKED 102 or .001)
( )	D1	1N914 or 1N4148 or 1N4002 (POLARITY)
( )	U1	74HC132 IC (QUAD SCHMIDT TRIGGER)
( )	U2	78L05 or 7805 VOLTAGE REGULATOR
( )	SW1,SW2	SWITCHES
( )	CON1	INDUCTOR INPUT CONNECTOR
( )		9V BATTERY CONNECTOR
( )		PC BOARD - 080-00243

CONTROL FUNCTIONS

( )	SW1	RANGE SELECTOR - LOW IS IN
( )	SW2	POWER SWITCH - ON IS IN
( )	R1	ZERO ADJUST
( )	R6	LOW RANGE ADJUST
( )	R7	HIGH RANGE ADJUST

TO MEASURE INDUCTORS FROM 3 uH TO 500 uH
USE THE LOW RANGE.
TO MEASURE INDUCTORS FROM 100 uH TO 5 MH
USE HIGH RANGE.

ASSEMBLY INSTRUCTIONS

( ) 1. INSERT AND SOLDER JUMP
( ) 2. INSERT AND SOLDER R2 thru R5, R8 and R9 RESISTORS
( ) 3. INSERT AND SOLDER C1, C2, C3 CAPACITORS
( ) 4. INSERT AND SOLDER D1 DIODE (WATCH ORIENTATION)
( ) 5. INSERT AND SOLDER U2 VOLTAGE REGULATOR
( ) 6. INSERT AND SOLDER U1 74HC132 IC
( ) 7. INSERT AND SOLDER SW1 and SW2 SWITCHES
( ) 8. INSERT AND SOLDER R1, R6, R7 TRIM POTS
( ) 9. INSERT AND SOLDER THE BATTERY CONNECTOR AND METER WIRES.

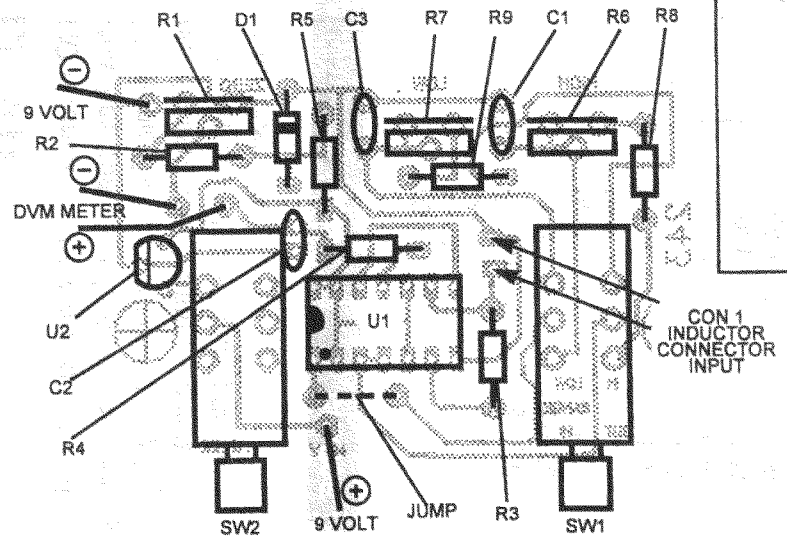
THE NEXT STEP IS TO CONNECT THE DVM AND THE CON1 INDUCTOR INPUT CONNECTOR TO THE CIRCUIT.

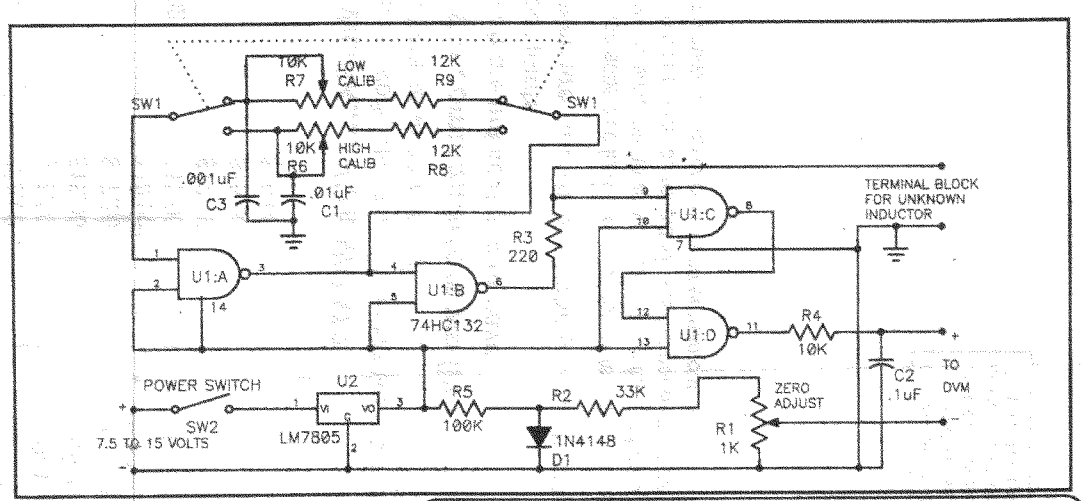
( ) 1. ON THE PARTS DIAGRAM YOU WILL SEE DVM + & - INPUTS THIS IS WHERE THE METER IS CONNECTED, POLARITY IS VERY IMPORTANT. YOU SHOULD USE THE PROPER CON NECTOR THAT MATES WITH THE DVM YOU ARE USING.
( ) 2. INSERT THE TWO WIRES FOR THE CON1 CONNECTOR FOR THE INPUTS, SEE PARTS DIAGRAM, NOW -- THIS IS VERY IMPORTANT, THE WIRES YOU PUT ON THIS CONNECTOR MUST BE AS SHORT AS POSSIBLE, THE MORE WIRE THE MORE INDUCTANCE YOU ADD TO THE CIRCUIT, THIS IS BAD FOR ACCURACY.

VERY CAREFULLY CHECK YOUR SOLDERING AND PARTS PLACEMENT

TEST AND CALIBRATION

( ) 1. CONNECT YOUR COMPLETED KIT TO A DVM. SET THE METER TO THE 200MV DC RANGE.
( ) 2. PLACE A SHORT PIECE OF WIRE ACROSS THE INPUT TERMINALS.
( ) 3. SET THE RANGE SWITCH (SW1) TO THE LOW RANGE (PUSHED IN)
( ) 4. ADJUST THE ZERO POT (R1) FOR A READING OF ZERO ON THE METER.
( ) 5. SET THE DVM TO THE 2.0V DC RANGE.
( ) 6. REMOVE THE WIRE AND INSERT AN INDUCTOR OF KNOWN VALUE INTO (CON1) CONNECTOR, A VALUE CLOSER TO 400 uH WILL GIVE BEST RESULTS. ADJUST(R7) FOR CORRECT READING, 400 uH WILL READ .400 VOLTS.
( ) 8. SET THE RANGE SWITCH (SW1) TO HIGH (OUT POSITION), SET THE DVM TO 2.0 VOLTS DC. INSERT A KNOWN INDUCTOR OF ABOUT 5 MH (MILLIHENRIES)INTO(CON1). ADJUST (R6) FOR CORRECT READING, 5.0MH WILL READ .500 ON THE DVM.





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Inductance Adapter Meter

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